Application No. 10/650,062 Response to Office Action Customer No. 01933

Listing of Claims:

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Claims 1-5 (Canceled).

- 6. (Currently Amended) A laser scanning microscope comprising:
- a first optical scanning system which scans a first laser light for observing a sample on the sample;
- a first light branch device which separates a light from the sample from an optical path of the first laser light;
- at least one photodetector which detects the light from the sample separated by the first light branch device;
- a second optical scanning system which irradiates a specific portion on the sample with a second laser light for stimulating or operating the sample; and
 - a wavelength selection device which is disposed between the first light branch device and the photodetector and which has a first function of transmitting a desired observation light and a second function of limiting transmission of the second laser light:

wherein the second optical scanning system is attachable and detachable with respect to a main body of the laser scanning microscope that includes the first optical scanning system.

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- 7. (Currently Amended) The A laser scanning microscope according to claim 6, comprising:
- a first optical scanning system which scans a first laser light for observing a sample on the sample;
- a first light branch device which separates a light from the sample from an optical path of the first laser light;
 - at least one photodetector which detects the light from the sample separated by the first light branch device;
 - a second optical scanning system which irradiates a specific portion on the sample with a second laser light for stimulating or operating the sample; and
 - a wavelength selection device which is disposed between the first light branch device and the photodetector and which has a first function of transmitting a desired observation light and a second function of limiting transmission of the second laser light;

wherein the wavelength selection device comprises an interference filter.

- 8. (Currently Amended) The A laser scanning microscope according to claim 6, comprising:
- a first optical scanning system which scans a first laser light for observing a sample on the sample;

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- a first light branch device which separates a light from the sample from an optical path of the first laser light;
 - at least one photodetector which detects the light from the sample separated by the first light branch device;
- a second optical scanning system which irradiates a specific portion on the sample with a second laser light for stimulating or operating the sample; and
 - a wavelength selection device which is disposed between the first light branch device and the photodetector and which has a first function of transmitting a desired observation light and a second function of limiting transmission of the second laser light:

wherein a transmittance of the second laser light of by the wavelength selection device is not more than 0.01%.

Claim 9 (Canceled).

- (Previously Presented) The laser scanning microscope 10. according to claim 8, wherein the wavelength selection device comprises an interference filter comprising:
- a first interference coating, which performs the first function, on one surface of a substrate; and
- a second interference coating, which performs the second function, on another surface of the substrate.

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- 11. (Original) The laser scanning microscope according to claim 8, wherein the second laser light is an ultraviolet or infrared light.
- 12. (Currently Amended) The A laser scanning microscope according to claim 6, comprising:
- a first optical scanning system which scans a first laser light for observing a sample on the sample;
- a first light branch device which separates a light from the sample from an optical path of the first laser light;
- at least one photodetector which detects the light from the sample separated by the first light branch device;
- a second optical scanning system which irradiates a specific portion on the sample with a second laser light for stimulating or operating the sample; and
- a wavelength selection device which is disposed between the first light branch device and the photodetector and which has a first function of transmitting a desired observation light and a second function of limiting transmission of the second laser light;

wherein the wavelength selection device comprises:

- at least one first interference filter which performs the first function; and
- at least one second interference filter which
 20 performs the second function.

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13. (Previously Presented) The laser scanning microscope according to claim 12, wherein:

the at least one photodetector comprises a plurality of photodetectors and the at least one first interference filter comprises a plurality of first interference filters;

a second light branch device which splits the light from the sample toward the photodetectors is disposed between the first light branch device and the photodetectors;

the second interference filter is disposed between the first and second light branch devices; and

the first interference filters are disposed between the respective photodetectors and the second light branch device.

14. (Original) The laser scanning microscope according to claim 12, further comprising:

a wavelength change section which changes a wavelength of the second laser light; and

a filter change section which changes the second interference filter in accordance with the wavelength of the second laser light.

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- (Previously Presented) The laser scanning microscope 15. according to claim 7, wherein the interference filter comprises:
- a first interference coating which performs the first function; and
- a second interference coating which performs the second function.
 - (Original) The laser scanning microscope according to claim 6, wherein the second laser light is an ultraviolet or infrared light.

Claims 17 and 18 (Canceled).

- (Original) The laser scanning microscope according to claim 6, wherein the desired observation light is a fluorescence excited by the first laser light.
- (New) The laser scanning microscope according to 20. claim 12, wherein a transmittance of the second laser light by the wavelength selection device is not more than 0.01%.
- (New) The laser scanning microscope according to 21. claim 12, wherein the second laser light is an ultraviolet or infrared light.